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OM nucleic - nucleic search, using sw model

Run on: January 4, 2005, 09:45:23 ; Search time 128 Seconds
(without alignments)
6413.759 Million cell updates/sec

Title: US-09-771-904A-11

Perfect score: 1155
Sequence: 1 atcggtgcagtcggaagaat.....gtcacacaataagttatga 1155

Scoring table: IDENTITY_NIC
Gapop 10.0, Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:
1: /cgn2_6/prodata/1/ina/5A COMB.seq.*
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6: /cgn2_6/prodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1155	100.0	1155	3-US-09-354-231B-11	Sequence 11, Appl
2	1155	100.0	1155	4-US-09-128-602B-11	Sequence 11, Appl
3	1155	100.0	1155	4-US-09-995-297-11	Sequence 11, Appl
4	1153.4	99.9	1155	3-US-09-354-231B-9	Sequence 9, Appl
5	1153.4	99.9	1155	4-US-09-128-602B-9	Sequence 9, Appl
6	1153.4	99.9	1155	4-US-09-995-297-9	Sequence 9, Appl
7	1153.4	99.9	1426	3-US-09-133-962A-3	Sequence 3, Appl
8	1153	99.8	1155	2-US-08-675-650B-3	Sequence 3, Appl
9	1151.4	99.7	1155	2-US-08-675-650B-5	Sequence 5, Appl
10	1147	99.3	1155	3-US-08-907-608-3	Sequence 3, Appl
11	1147	99.3	1155	4-US-09-482-287-3	Sequence 3, Appl
12	1147	99.3	1155	4-US-09-866-888-3	Sequence 3, Appl
13	1145.4	99.2	1155	3-US-08-907-608-5	Sequence 5, Appl
14	1145.4	99.2	1155	3-US-09-354-231B-5	Sequence 5, Appl
15	1145.4	99.2	1155	4-US-09-128-602B-5	Sequence 5, Appl
16	1145.4	99.2	1155	4-US-09-482-287-5	Sequence 5, Appl
17	1145.4	99.2	1155	4-US-09-966-888-5	Sequence 5, Appl
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19	1143.8	99.0	1155	3-US-09-354-231B-7	Sequence 7, Appl
20	1143.8	99.0	1155	4-US-09-128-602B-7	Sequence 7, Appl
21	1143.8	99.0	1155	4-US-09-995-297-7	Sequence 7, Appl
22	1097.4	95.0	1155	3-US-09-354-231B-13	Sequence 13, Appl
23	1097.4	95.0	1155	4-US-09-128-602B-13	Sequence 13, Appl
24	1097.4	95.0	1155	4-US-09-995-297-13	Sequence 13, Appl
25	1095.8	94.9	1155	2-US-08-675-650B-1	Sequence 1, Appl
26	1095.8	94.9	1155	2-US-09-354-231B-15	Sequence 15, Appl
27	1095.8	94.9	1155	3-US-09-354-231B-17	Sequence 17, Appl

28	1095.8	94.9	1155	4-US-09-128-602B-15	Sequence 15, Appl
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31	1095.8	94.9	1155	4-US-09-995-297-17	Sequence 17, Appl
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36	1085.2	94.0	1155	3-US-09-354-231B-1	Sequence 1, Appl
37	1085.2	94.0	1155	4-US-09-128-602B-1	Sequence 1, Appl
38	1085.2	94.0	1155	4-US-09-482-287-1	Sequence 1, Appl
39	1085.2	94.0	1155	4-US-09-966-888-1	Sequence 1, Appl
40	1085.2	94.0	1155	4-US-09-995-297-1	Sequence 1, Appl
41	875	75.8	2973	3-US-09-133-962A-15	Sequence 15, Appl
42	873.4	75.6	1372	3-US-09-133-962A-15	Sequence 15, Appl
43	851.8	73.7	1231	1-US-08-314-596-44	Sequence 44, Appl
44	851.8	73.7	1231	1-US-08-320-982-44	Sequence 44, Appl
45	851.8	73.7	1231	3-US-08-819-037-44	Sequence 44, Appl

ALIGNMENTS

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RESULT 1
US-09-354-231B-11
; Sequence 11, Application US/09354231B
; Patent No. 6342658
; GENERAL INFORMATION:
; APPLICANT: Debonite, Lorin R.
; TITLE OF INVENTION: FATY ACID DESATURASES AND MUTANT SEQUENCES THEREOF
; FILE REFERENCE: 07148-063002
; CURRENT APPLICATION NUMBER: US/09/354,231B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US 08/874,109
; PRIOR FILING DATE: 1997-06-12
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1155
; TYPE: DNA
; ORGANISM: Brassica napus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1152)
US-09-354-231B-11

Query Match      100.0%; Score 1155; DB 3; Length 1155;
Best Local Similarity 100.0%; Pred. No. 1.5e-311;
Matches 1155; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 ATGGGTGAGGTGGAAGAAATGCAAGTGTCTCTCTCCCAAAAGTCTGAACGACAC 60
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QY 61 ATCAACGGGTACCCGCGACAGACACCGCCCTTCACTGTGGAAATCAAGAAAGCAATC 120
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Db 1141 AACAATAAGTTATGA 1155

RESULT 2
US-09-128-602B-11
; Sequence 11, Application us/09128602B
; Patent No. 641423
; GENERAL INFORMATION:
; APPLICANT: Kodali, Dharm
; APPLICANT: Fan, Zhong
; APPLICANT: Debonte, Lorin R.
; TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
; FILE REFERENCE: 07148-072001
; CURRENT APPLICATION NUMBER: US/09/128, 602B
; FILING DATE: 1998-08-03
; NUMBER OF SEQ ID NOS: 68

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1155
; TYPE: DNA
; ORGANISM: Brassica napus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1) ... (1152)
US-09-128-602B-11

Query Match 100.0%; Score 1155; DB 4; Length 1155;
Best Local Similarity 100.0%; Pred. No. 1.5e-311;
Matches 1155; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGGAGCGAGTGAAGAAATGCAAGTGTCTCCCTCCCAAAAAGCTGAACCCGACAGC 60
Db 1 ATGGGAGCGAGTGAAGAAATGCAAGTGTCTCCCTCCCAAAAAGCTGAACCCGACAGC 60
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Db 1141 AACATTAAGTTATGA 1155

RESULT 3

US-09-995-297-11
; Sequence 11, Application us/09995297
; Patent No. 6639782
; GENERAL INFORMATION:
; APPLICANT: Kodali, Dharna
; APPLICANT: Fan, Zhesong
; APPLICANT: DeBonte, Lorin R.
; TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
; FILE REFERENCE: 07148-072002
; CURRENT APPLICATION NUMBER: US/09/995,297
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 09/128,602
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1155
; TYPE: DNA
; ORGANISM: Brassica napus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1152)
US-09-995-297-11

Query Match 100.0%; Score 1155; DB 4; Length 1155;
Best Local Similarity 100.0%; Pred. No. 1.5e-311; Indels 0; Gaps 0;
Matches 1155; Conservative 0; Mismatches 0;

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QY 1081 AAGGAGTATCTATGATGGAACCGGACAGGCAAGTGAAGAAAGTGTCTGCTAC 1140
Db 1081 AAGGAGTATCTATGATGGAACCGGACAGGCAAGTGAAGAAAGTGTCTGCTAC 1140
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RESULT 4

US-09-354-231B-9
; Sequence 9, Application US/09354231B
; Patent No. 6342658
; GENERAL INFORMATION:
; APPLICANT: DeBonte, Lorin R.
; APPLICANT: Shorttosh, Basil S.
; TITLE OF INVENTION: FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF
; FILE REFERENCE: 07148-063002
; CURRENT APPLICATION NUMBER: US/09/354,231B
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US 08/874,109

/ NUMBER OF SEQ ID NOS: 69
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 9
/ LENGTH: 1155
/ TYPE: DNA
/ ORGANISM: Brassica napus
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1) ... (1152)
US-09-354-231B-9

Query Match 99.9%; Score 1153.4; DB 3; Length 1155;
Best Local Similarity 99.9%; Pred. No. 4.2e-311;
Matches 1154; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 ATGGGTGAGGTGGAAGATGCAAGTGTCTCTCCCTCCAAAAGCTGAAACCGGCAAC 60
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QY 1021 CTGGAGAGTATTTATCAAGTTCATGATGAGACGCGGTGTGTTAAGCCATGTGGAGGGG 1080
Db 1021 CTGGAGAGTATTTATCAAGTTCATGATGAGACGCGGTGTGTTAAGCCATGTGGAGGGG 1080
QY 1081 AAGAGTGTATCTATGTGGAACCGGACAGGCAAGGTGAGAAAGGTGTCTGTGTAC 1140
Db 1081 AAGAGTGTATTTATGTGGAACCGGACAGGCAAGGTGAGAAAGGTGTCTGTGTAC 1140
QY 1141 AACATTAAGTTATGA 1155
Db 1141 AACATTAAGTTATGA 1155
```

RESULT 5
US-09-128-602B-9
Sequence 9, Application US/09128602B

Patent No. 6414223
GENERAL INFORMATION:
APPLICANT: Kodali, Dharma
APPLICANT: Pan, Zhegong
APPLICANT: DeBonte, Lorin R.
TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
FILE REFERENCE: 07148-072001
CURRENT APPLICATION NUMBER: US/09/128,602B
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 9
LENGTH: 1155
TYPE: DNA
ORGANISM: Brassica napus
FEATURE:
NAME/KEY: CDS
LOCATION: (1) ... (1152)
US-09-128-602B-9

Query Match 99.9%; Score 1153.4; DB 4; Length 1155;
Best Local Similarity 99.9%; Pred. No. 4.2e-311;
Matches 1154; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 ATGGGTGAGGTGGAAGATGCAAGTGTCTCTCCCTCCAAAAGCTGAAACCGGCAAC 60
Db 1 ATGGGTGAGGTGGAAGATGCAAGTGTCTCTCCCTCCAAAAGCTGAAACCGGCAAC 60
QY 61 ATCAAGCGCGTACCTGCGAGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCATC 120
Db 61 ATCAAGCGCGTACCTGCGAGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCATC 120
QY 121 CCACGGCACTGTTTCAACGCTGATCCCTGCTTTTCTCTACCTCATCTGGAGATC 180
Db 121 CCACGGCACTGTTTCAACGCTGATCCCTGCTTTTCTCTACCTCATCTGGAGATC 180
QY 181 ATCATAGGCTCTGCTTCTACTAGTGTGCGACACACTTACTTCCCTCCCTGACCCCT 240
Db 181 ATCATAGGCTCTGCTTCTACTAGTGTGCGACACACTTACTTCCCTCCCTGACCCCT 240
QY 241 CTCTCTACTTGTGCGCTGCTCTCTACTGTGGCTGCGACGAGGCTGCTTACCGGCGTC 300
Db 241 CTCTCTACTTGTGCGCTGCTCTCTACTGTGGCTGCGACGAGGCTGCTTACCGGCGTC 300
QY 301 TGGGTCTATAGCCCAAGTGTGCGGCGACACAGCCTTTCAGGCACTTACAGTGTGAGCGAC 360
Db 301 TGGGTCTATAGCCCAAGTGTGCGGCGACACAGCCTTTCAGGCACTTACAGTGTGAGCGAC 360
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Db	301	TTGGGTATATAGCCACGAGTGGGGCACAACGACCTTCAAGCATCAAGTGGCTGGAGAC	360
Qy	361	ACCGTGGCCTCATCTTCCACTCTCTCTCTGTCCTTACTTCTCTGGAAGTACAGT	420
Db	361	ACCGTGGCCTCATCTTCCACTCTCTCTCTGTCCTTACTTCTCTGGAAGTACAGT	420
Qy	421	CATCGACGCGACCATTTCCAACTGGCTCCCTGAGAGAGCGAAGTGTGTGCCCCAAG	480
Db	421	CATCGACGCGACCATTTCCAACTGGCTCCCTGAGAGAGCGAAGTGTGTGCCCCAAG	480
Qy	481	AAGAAGTCAGACATCAAGTGGTACGGCAATACCTCAACAACCTTTGGAGCGACCGTG	540
Db	481	AAGAAGTCAGACATCAAGTGGTACGGCAATACCTCAACAACCTTTGGAGCGACCGTG	540
Qy	541	ATGTTAAGCGTTCAAGTTCACCTCTCGCTGGCTTTGTACTTAAAGCTTCAACGTCCTGGGG	600
Db	541	ATGTTAAGCGTTCAAGTTCACCTCTCGCTGGCTTTGTACTTAAAGCTTCAACGTCCTGGGG	600
Qy	601	AACCTTACGAGCGCGCGCTTGGCTTGGCATTTCCACCACCGCTCCCATCTTAAACGAC	660
Db	601	AACCTTACGAGCGCGCGCTTGGCTTGGCATTTCCACCACCGCTCCCATCTTAAACGAC	660
Qy	661	CGTAGCGCTCTCCAGATATATCATCTCCGAGCGTGCATCTCCGCTCTGCTGACGATCTC	720
Db	661	CGTAGCGCTCTCCAGATATATCATCTCCGAGCGTGCATCTCCGCTCTGCTGACGATCTC	720
Qy	721	TACCGCTACGCTGCTGCTCCAGAGATTGCTCGATGCTGCTTCTTCAACGAGTTCCTTT	780
Db	721	TACCGCTACGCTGCTGCTCCAGAGATTGCTCGATGCTGCTTCTTCAACGAGTTCCTTT	780
Qy	781	CTGATTTGTCAAGGGGTTCTTAAGTTTGATCATCTTACGACGACAGCATCTTCCCTG	840
Db	781	CTGATTTGTCAAGGGGTTCTTAAGTTTGATCATCTTACGACGACAGCATCTTCCCTG	840
Qy	841	CCTCACTATGACTCGTCTGAGTGGAGATTTGGTTGAGGGGAGCTTTGGCACCGCTGACGA	900
Db	841	CCTCACTATGACTCGTCTGAGTGGAGATTTGGTTGAGGGGAGCTTTGGCACCGCTGACGA	900
Qy	901	GACTACGGAATCTTGAACAAGATCTTCCACATATCAACGACAGCATGTCGACATCAC	960
Db	901	GACTACGGAATCTTGAACAAGATCTTCCACATATCAACGACAGCATGTCGACATCAC	960
Qy	961	CTGTTCTCGACCATGCGGCATTATCATGCGATGGAGCTACGAAGCGATTAAGCCGATA	1020
Db	961	CTGTTCTCGACCATGCGGCATTATCATGCGATGGAGCTACGAAGCGATTAAGCCGATA	1020
Qy	1021	CTGGGAGATATTTATCAGTTCCATGGGAGCGCCCGTGTAAAGCGATGTGGAGGAGCGG	1080
Db	1021	CTGGGAGATATTTATCAGTTCCATGGGAGCGCCCGTGTAAAGCGATGTGGAGGAGCGG	1080
Qy	1081	AAGAGTGTATCTATGTGGAACCGGACAGCGCAAGTGAAGAAAGGTGTGTTCTGTAC	1140
Db	1081	AAGAGTGTATCTATGTGGAACCGGACAGCGCAAGTGAAGAAAGGTGTGTTCTGTAC	1140
Qy	1141	AACAATTAAGTATGA	1155
Db	1141	AACAATTAAGTATGA	1155

[illegible]

|||||
Db CCTCATTATGACTGCTGAGTGGAGTGGTGAAGGGAGCTTTGGCCACCTTGCACAGA 900
QY 901 GACTAGGAACTCTGAAACAAGCTCTCCCAATATACAGGACACGACGCGGCAATCC 960
Db 901 GACTAGGAACTCTGAAACAAGCTCTCTCCCAATATACAGGACACGACGCGGCAATCC 960
QY 961 CTGCTTCGACCAATGCGGCAATATATCATGCGATGGAAGCTTCAAGAGCGATAAAGCCGATA 1020
Db 961 CTGCTTCGACCAATGCGGCAATATATCATGCGATGGAAGCTTCAAGAGCGATAAAGCCGATA 1020
QY 1021 CTGGGAGAGATTTATCATGTTCCATGAGGACGCGCGTGTAAAGCGATGTGAGAGGAGCGG 1080
Db 1021 CTGGGAGAGATTTATCATGTTCCATGAGGACGCGCGTGTAAAGCGATGTGAGAGGAGCGG 1080
QY 1081 AAGAGATGATCTATGAGAACGCGACAGGCAAGTGAAGAAGAGTGTCTGTGAC 1140
Db 1081 AAGAGATGATCTATGAGAACGCGACAGGCAAGTGAAGAAGAGTGTCTGTGAC 1140
QY 1141 AACATATAGTTATGA 1155
Db 1141 AACATATAGTTATGA 1155

RESULT 7
US-09-133-962A-3
; Sequence 3, Application US/09133962A
; Patent No. 6372965
; GENERAL INFORMATION:
; APPLICANT: JONATHAN EDWARD LIGHTNER
; JOHN JOSEPH OKULEY
; TITLE OF INVENTION: GENES FOR MICROSOFTAL FATTY ACID
; DELTA-12 DESATURASES AND RELATED
; ENZYMES FROM PLANTS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
; STREET: 1007 MARKET STREET
; CITY: WILMINGTON
; STATE: DELAWARE
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 19898
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.50 INCH
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: MICROSOFT WORD FOR WINDOWS 95
; SOFTWARE: MICROSOFT WORD VERSION 7.0A
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/133,962A
; FILING DATE: 14-Aug-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. 07/977,339
; FILING DATE: 17-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: CHRISTENBURY, LYNN M.
; REGISTRATION NUMBER: 30,971
; REFERENCE/DOCKET NUMBER: BB-1043-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (302) 992-5481
; TELEFAX: (302) 773-0164
; TELEEX: 835420
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1426 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Brassica napus
; FEATURE:

/ NAME/KEY: CDS
/ LOCATION: 130..1284
/ SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-133-962A-3
Query Match 99.9%; Score 1153.4; DB 3; Length 1426;
Best Local Similarity 99.9%; Pred. No. 4,6e-311;
Matches 1154; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGGGTGACGAGTGAAGAAATGCAAGTGTCTCCCTCCAAAAGCTGAACCGACAC 60
Db 130 ATGGGTGACGAGTGAAGAAATGCAAGTGTCTCCCTCCAAAAGCTGAACCGACAC 189
QY 61 ATCAAGCGGCTACCTCCGACGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCAATC 120
Db 190 ATCAAGCGGCTACCTCCGACGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCAATC 249
QY 121 CCAAGCGACTGTTTCAAGAGCTGATCCTCGCTCTTTCTCTACTCTCATCTGGAGATC 180
Db 250 CCAAGCGACTGTTTCAAGAGCTGATCCTCGCTCTTTCTCTACTCTCATCTGGAGATC 309
QY 181 ATCATAGCTCTGCTTCTACTACGTCGACACACTTACTTCCCTGCTCCCTGACCT 240
Db 310 ATCATAGCTCTGCTTCTACTACGTCGACACACTTACTTCCCTGCTCCCTGACCT 369
QY 241 CTCTCCTACTTGCGCTGCTGCTCTCTACTGAGGCTGACAGGCTGCTTAAACGGCGATC 300
Db 370 CTCTCCTACTTGCGCTGCTGCTCTCTACTGAGGCTGACAGGCTGCTTAAACGGCGATC 429
QY 301 TGGGTCTATAGCCCAACAGTGGCGGACACAGGCTTCAAGGACTTACAGTGGCTGAGAC 360
Db 430 TGGGTCTATAGCCCAACAGTGGCGGACACAGGCTTCAAGGACTTACAGTGGCTGAGAC 489
QY 361 ACCGTGGGCTGATCTTCCACTCTTCCCTGCTGCTTCTTCTCTCTGGAAGTACAT 420
Db 490 ACCGTGGGCTGATCTTCCACTCTTCCCTGCTGCTTCTTCTCTGGAAGTACAT 549
QY 421 CATGACGCGACCATTTCAACAACGAGCTCCCTGAGAGAGAGAGAGAGTGTGTCCTCCAA 480
Db 550 CATGACGCGACCATTTCAACAACGAGCTCCCTGAGAGAGAGAGAGAGTGTGTCCTCCAA 609
QY 481 AAGAACTCAACATCAAGTGTGACGCGAAGTACCTCAACAACCTTTGGAGAGCACCGT 540
Db 610 AAGAACTCAACATCAAGTGTGACGCGAAGTACCTCAACAACCTTTGGAGAGCACCGT 669
QY 541 ATGTTAAGGTTCAAGTTCATCTCGGCTGCGCTTGTATTTAGCTTCAACGCTGCGGG 600
Db 670 ATGTTAAGGTTCAAGTTCATCTCGGCTGCGCTTGTATTTAGCTTCAACGCTGCGGG 729
QY 601 AAGACTTACGAGGCGGCTTCCCTTGCATTTTCAACCCCAAGCTTCCATCAACAGAC 660
Db 730 AAGACTTACGAGGCGGCTTCCCTTGCATTTTCAACCCCAAGCTTCCATCAACAGAC 789
QY 661 CGTGAAGCTCTCAAGTATATATCTTCCAGCGCTGGCATCTTGGCTGTGATAGGCTTC 720
Db 790 CGTGAAGCTCTCAAGTATATATCTTCCAGCGCTGGCATCTTGGCTGTGATAGGCTTC 849
QY 721 TACCGTACGCTGCTTCCAGAGAGTGTCTGATGTGCTTCTTCAAGAGTCTCTCT 780
Db 850 TACCGTACGCTGCTTCCAGAGAGTGTCTGATGTGCTTCTTCAAGAGTCTCTCT 909
QY 781 CTGATTTGCAAGGAGTCTTAACTTTTGAATCACTTACTTCAAGAGAGCTTCCCTG 840
Db 910 CTGATTTGCAAGGAGTCTTAACTTTTGAATCACTTACTTCAAGAGAGCTTCCCTG 969
QY 841 CCTCACTATGACTCGTCTGAGTGGAGTTGTTGAGGGAGCTTTGGCCACGTTGACAGA 900
Db 970 CCTCACTATGACTCGTCTGAGTGGAGTTGTTGAGGGAGCTTTGGCCACGTTGACAGA 1029
QY 901 GACTACGGAATCTTGAACAAGGCTTCCCAATATCAAGGACAGCAGTGGCGCATCAC 960
Db 1030 GACTACGGAATCTTGAACAAGGCTTCCCAATATCAAGGACAGCAGTGGCGCATCAC 1089

Accession	Sequence	Length
Oy	CTGTTCTGCACCATCCGCATTATCATCGATGAAAGCTACGAAGGCATTAAGCCGATA	1020
Oy	961	
Db	CTGTTCTGCACCATCCGCATTATCATCGATGAAAGCTACGAAGGCATTAAGCCGATA	1149
Db	1090	
Oy	CTGGGAGAGTATTATCAGTTCGATGGGACGCCGTTGTTAAAGCCGATGTGAGGGAGCG	1080
Oy	1021	
Db	CTGGGAGAGTATTATCAGTTCGATGGGACGCCGTTGTTAAAGCCGATGTGAGGGAGCG	1209
Db	1150	
Oy	AAGGAGTGTATCTATGTGAAACCGGACAGGCAAGGTGAGAAAGGTGTGTTCTGGTAC	1140
Oy	1061	
Db	AAGGAGTGTATCTATGTGAAACCGGACAGGCAAGGTGAGAAAGGTGTGTTCTGGTAC	1269
Db	1210	
Oy	AACCAATAGTTATGA	1155
Oy	1141	
Db	AACCAATAGTTATGA	1284
Db	1270	

RESULT 8

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US-08-675-650B-3
: Sequence 3, Application US/08675650B
: Patent No. 5850026
:
: GENERAL INFORMATION:
:   APPLICANT: DeBonte, L. et al.
:   TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID ANT
:   TITLE OF INVENTION: DECREASED LINOLENIC ACID CONTENT
:   NUMBER OF SEQUENCES: 6
:   CORRESPONDENCE ADDRESS:
:   ADDRESSEE: Fish & Richardson, P.C., P.A.
:   STREET: 60 South Sixth Street, Suite 3300
:   CITY: Minneapolis
:   STATE: MN
:   COUNTRY: USA
:   ZIP: 55402
:
: COMPUTER READABLE FORM:
:   MEDIUM TYPE: Floppy disk
:   COMPUTER: IBM PC compatible
:   OPERATING SYSTEM: PC-DOS/MS-DOS
:   SOFTWARE: Patent In Release #1.0, Version #1.30
:   CURRENT APPLICATION DATA:
:   APPLICATION NUMBER: US/08/675,650B
:   FILING DATE: 03-JUL-1996
:   CLASSIFICATION: 800
:
: ATTORNEY/AGENT INFORMATION:
:   NAME: Lundquist, Ronald C.
:   REGISTRATION NUMBER: 37,875
:   REFERENCE/DOCKET NUMBER: 07148/042001
:   TELECOMMUNICATION INFORMATION:
:   TELEPHONE: 612/335-5070
:   TELEFAX: 612/288-9696
:
: INFORMATION FOR SEQ ID NO: 3:
:   SEQUENCE CHARACTERISTICS:
:     LENGTH: 1155 base pairs
:     TYPE: nucleic acid
:     STRANDEDNESS: single
:     TOPOLOGY: linear
:     MOLECULE TYPE: DNA
:     HYPOTHETICAL: NO
:     ANTI-SENSE: NO
:     ORIGINAL SOURCE:
:     ORGANISM: Brassica napus
:     IMMEDIATE SOURCE:
:     CLONE: IMC129
:     FEATURE:
:
: OTHER INFORMATION: G to A transversion
: OTHER INFORMATION: mutation at nucleotide 316 of the D form
US-08-675-650B-3

```

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Query Match      99.8%;   Score 1153;   DB 2;   Length 115;
Best Local Similarity 99.6%;   Pred. No. 5.4e-31;
Matches 1150;   Conservative 5;   Mismatches 0;   Indels 0;   Gaps 0;

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Db	_	ATGGGTGACGGTGGAGAAATGCAGATGTCTCTCCCTCAAAAAGTCTGAACCGACAC	60
OY	61	ATCAAGCGCGTACCCCTGGAGACACCGCCCTTCACTGTCCGAGAACTCAAGAAACATC	120
Db	61	ATCAAGCGCGTACCCCTGGAGACACCGCCCTTCACTGTCCGAGAACTCAAGAAACATC	120
OY	121	CCACCGCACGTGTTCAAACGCTGCATCCCTGCTTTCTCTCACTCATCTGTGGGACATC	180
Db	121	CCACCGCACGTGTTCAAACGCTGCATCCCTGCTTTCTCTCACTCATCTGTGGGACATC	180
OY	181	ATCATAGCGCTCTGCTTCTCACTACGTGCACACACTTACTTCCCTCTCTCCACACTT	240
Db	181	ATCATAGCGCTCTGCTTCTCACTACGTGCACACACTTACTTCCCTCTCTCCACACTT	240
OY	241	CTCTCTCACTTTCGCTTGCGCTCTCTCACTGTGGCCCTGCAGAGGCTGCTCTAACCGCGCTC	300
Db	241	CTCTCTCACTTTCGCTTGCGCTCTCTCACTGTGGCCCTGCAGAGGCTGCTCTAACCGCGCTC	300
OY	301	TGGGTCAATAGCCCAAGATGTGGGACACACGCCCTTCAAGCAGTACAGTGGCTTGGACGAC	360
Db	301	TGGGTCAATAGCCCAAGATGTGGGACACACGCCCTTCAAGCAGTACAGTGGCTTGGACGAC	360
OY	361	ACCGTGGCCCTCATCTTTCACACTCCCTGCTCTGCTCCCTTACTTCTCCTGGAAATACGT	420
Db	361	ACCGTGGCCCTCATCTTTCACACTCCCTGCTCTGCTCCCTTACTTCTCCTGGAAATACGT	420
OY	421	CATGACGCGCACCATTCCTCAACTCTGAGTCCCTCGAGAGAGCAGATGTATTGTCCCAAG	480
Db	421	CATGACGCGCACCATTCCTCAACTCTGAGTCCCTCGAGAGAGCAGATGTATTGTCCCAAG	480
OY	481	AAGAAGTCAGACATCAAGTGTATCGGCAATGACTCTCAACAACTCTTGGAGCGACCGTGT	540
Db	481	AAGAAGTCAGACATCAAGTGTATCGGCAATGACTCTCAACAACTCTTGGAGCGACCGTGT	540
OY	541	ATGTTAACGGTTCAGTTCACTCTCGGCGGCGCTTGTACTTAAGCTTCAACGTCCTGGGCG	600
Db	541	ATGTTAACGGTTCAGTTCACTCTCGGCGGCGCTTGTACTTAAGCTTCAACGTCCTGGGCG	600
OY	601	AGACCTTACAGACGCGCGGCTTCGCTTGCACATTTCCACCACCAACGCTCCCATCTCAACGAC	660
Db	601	AGACCTTACAGACGCGCGGCTTCGCTTGCACATTTCCACCACCAACGCTCCCATCTCAACGAC	660
OY	661	CGTGAAGGCTTCCAGATATACATCTCCGACGCTGTGCATCTCGCCGCTGTGTAACGTTCTC	720
Db	661	CGTGAAGGCTTCCAGATATACATCTCCGACGCTGTGCATCTCGCCGCTGTGTAACGTTCTC	720
OY	721	TACCGCTACGCTGTGTCACAAAGAGTGGCCCTCGATGTGCTGTCTTACGGAAGTCCCTTT	780
Db	721	TACCGCTACGCTGTGTCACAAAGAGTGGCCCTCGATGTGCTGTCTTACGGAAGTCCCTTT	780
OY	781	CTGATTGTCAACGGGTTCTTAGTTTGTATCACTTACTTGGACGACACGACATCTTCCCTG	840
Db	781	CTGATTGTCAACGGGTTCTTAGTTTGTATCACTTACTTGGACGACACGACATCTTCCCTG	840
OY	841	CTTCACATATGACTCTGCTGATGTGGGATTTGTTGAGGGGAGCTTTGGCCACCGTTGACAGA	900
Db	841	CTTCACATATGACTCTGCTGATGTGGGATTTGTTGAGGGGAGCTTTGGCCACCGTTGACAGA	900
OY	901	GACTACGGAATCTTGAACAAAGGCTTTCACAATAATACGGAACGACACGTCGTCGACATCAC	960
Db	901	GACTACGGAATCTTGAACAAAGGCTTTCACAATAATACGGAACGACACGTCGTCGACATCAC	960
OY	961	CTGTTCTTCGACATGCGGCATTTATCANTGCGATGGAACTACGAAGCGGATTAAGCCGATA	1020
Db	961	CTGTTCTTCGACATGCGGCATTTATCANTGCGATGGAACTACGAAGCGGATTAAGCCGATA	1020
OY	1021	CTGGGAGAGTATTTATCACTTTCGATGGGACGCCGCTGTTAAGCGCATGTGAGAGGAGCG	1080
Db	1021	CTGGGAGAGTATTTATCACTTTCGATGGGACGCCGCTGTTAAGCGCATGTGAGAGGAGCG	1080
OY	1081	AAGGAGGTATCTTATGTGGAACCGGACACAGCCAGATGTGAGAAAGGTTGTCTGTGATC	1140
Db	1081	AAGGAGGTATCTTATGTGGAACCGGACACAGCCAGATGTGAGAAAGGTTGTCTGTGATC	1140


```

1 NUMBER OF SEQUENCES: 6
2 CORRESPONDENCE ADDRESS:
3 ADDRESSEE: Fish & Richardson, P.C., P.A.
4 STREET: 60 South Sixth Street, Suite 3300
5 CITY: Minneapolis
6 STATE: MN
7 COUNTRY: USA
8 ZIP: 55402
9
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: floppy disk
12 COMPUTER: IBM PC compatible
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14 SOFTWARE: Patentin Release #1.0, Version #1.30
15 CURRENT APPLICATION DATA:
16 APPLICATION NUMBER: US/08/907,608
17 FILING DATE: 08-AUG-1997
18 PRIOR APPLICATION DATA:
19 APPLICATION NUMBER: 08/675,650
20 FILING DATE: 03-JUL-1996
21 ATTORNEY/AGENT INFORMATION:
22 NAME: Lundquist, Ronald C.
23 REGISTRATION NUMBER: 37,875
24 REFERENCE/DOCKET NUMBER: 07148/042002
25 TELECOMMUNICATION INFORMATION:
26 TELEPHONE: 612/335-5070
27 TELEFAX: 612/288-9696
28 INFORMATION FOR SEQ ID NO: 3:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 1155 base pairs
31 TYPE: nucleic acid
32 STRANDEDNESS: single
33 TOPOLOGY: linear
34 MOLECULE TYPE: DNA
35 HYPOTHEICAL: NO
36 ANTI-SENSE: NO
37 ORIGINAL SOURCE:
38 ORGANISM: Brassica napus
39 IMMEDIATE SOURCE:
40 CLONE: IMC129
41 FEATURE:
42 OTHER INFORMATION: G to A transversion
43 OTHER INFORMATION: mutation at nucleotide 316 of the D form.
44
45 US-08-907-608-3
46
47 Query Match 99.3%; Score 1147; DB 3; Length 1155;
48 Best Local Similarity 99.6%; Pred. No. 2.5e-309;
49 Matches 1150; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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51 1 ATGGGTGCAAGTGGGAAGAATGCAAGTGTCTCTCCCTCCAAAAGTCTGAAACCGACAAC 60
52 1 ATGGGTGCAAGTGGGAAGAATGCAAGTGTCTCTCCCTCCAAAAGTCTGAAACCGACAAC 60
53
54 61 ATCAAGCGCGTACCTGTGGAGACACCGGCTTCACTGTGGGAATCAAGAAAGCAATC 120
55 61 ATCAAGCGCGTACCTGTGGAGACACCGGCTTCACTGTGGGAATCAAGAAAGCAATC 120
56
57 121 CCACCGCACTGTTTCAAAAGCTCGATCCCTGCTTTTCTCTTCACTCATCTGGACATC 180
58 121 CCACCGCACTGTTTCAAAAGCTCGATCCCTGCTTTTCTCTTCACTCATCTGGACATC 180
59
60 122 CCAACGCACTGTTTCAAAAGCTCGATCCCTGCTTTTCTCTTCACTCATCTGGACATC 180
61 122 CCAACGCACTGTTTCAAAAGCTCGATCCCTGCTTTTCTCTTCACTCATCTGGACATC 180
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63 181 ATCATAGCTCTGCTGTTTCACTAGTGGCAACCACTTACTTCTCTCTCTCAACCT 240
64 181 ATCATAGCTCTGCTGTTTCACTAGTGGCAACCACTTACTTCTCTCTCTCAACCT 240
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66 241 CTCTCTCACTTGGCTGGGCTCTACTAGGCGCTGCGAGGGGTGGGTCTTAAACGGCGTC 300
67 241 CTCTCTCACTTGGCTGGGCTCTACTAGGCGCTGCGAGGGGTGGGTCTTAAACGGCGTC 300
68
69 301 TGGGTGATAGCCCAAGTGGCGGCAACAGCGCTTCAAGGCACTACAGTGGCTGGACGAC 360
70 301 TGGGTGATAGCCCAAGTGGCGGCAACAGCGCTTCAAGGCACTACAGTGGCTGGACGAC 360
71
72 361 ACCGTGGCGCTCATCTTCACTCTTCTCTGTCCTTCACTTCTCTCTGAAATGACGT 420
73 361 ACCGTGGCGCTCATCTTCACTCTTCTCTGTCCTTCACTTCTCTCTGAAATGACGT 420

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Db      361  ACCGTGGCCCTCATCTTTCACCTCCTTCTCTCTGTCCTTACTTCTCTCGAAGTACAGT 420
OY      421  CATCGACGCCACCAATTCACACATCGGCTCCTCGAGAGAGACGAAGTGTTCGCCAAG 480
Db      421  CATGACGCCACCAATTCACACATCGGCTCCTCGAGAGAGACGAAGTGTTCGCCAAG 480
OY      481  AAGAAGTCACACATCAAGTGGTACGGGAGAGAACTCAACACCTTTGGAGCGACCGTG 540
Db      481  AAGAAGTCACACATCAAGTGGTACGGGAGAGAACTCAACACCTTTGGAGCGACCGTG 540
OY      541  ATGTTAAACGGTTCAGTTCACCTCTCGGCTGGCCCTTGTACTTACGCTTCAACGTCGCGG 600
Db      541  ATGTTAAACGGTTCAGTTCACCTCTCGGCTGGCCCTTGTACTTACGCTTCAACGTCGCGG 600
OY      601  AGACCTTAACGACGCGCGCTTCGCTTGCCTATTCACCCCAACGCTCCCATCTACACGAC 660
Db      601  AGACCTTAACGACGCGCGCTTCGCTTGCCTATTCACCCCAACGCTCCCATCTACACGAC 660
OY      661  CGTAGAGCTCTCCAGATATACATCTCCGACGCTGGACCTCTCGGCGCTGTAGAGTCTC 720
Db      661  CGTAGAGCTCTCCAGATATACATCTCCGACGCTGGACCTCTCGGCGCTGTAGAGTCTC 720
OY      721  TACCGCTACGCTGCTGCTCCAAAGAGTTCGCTCGATGAGTCTCTACGAGATTCCTT 780
Db      721  TACCGCTACGCTGCTGCTCCAAAGAGTTCGCTCGATGAGTCTCTACGAGATTCCTT 780
OY      781  CTGATGTGCAACGCGGTTCTTAGTGTGATCACTTACTTGACGACACGCAATCCTTCCCTG 840
Db      781  CTGATGTGCAATGGGTTCTTAGTGTGATCACTTACTTGACGACACGCAATCCTTCCCTG 840
OY      841  CCTCACTATGACTGCTCTGAGTGGGATTTGGTTGAGGGGAGCTTTGGCCACCGTTGACAGA 900
Db      841  CCTCACTATGACTGCTCTGAGTGGGATTTGGTTGAGGGGAGCTTTGGCCACCGTTGACAGA 900
OY      901  GACTACGGAATCTTGAAACAAAGGTCCTCCAAATATCAACGACACGACGCTGGGCGCATCAC 960
Db      901  GACTACGGAATCTTGAAACAAAGGTCCTCCAAATATCAACGACACGACGCTGGGCGCATCAC 960
OY      961  CTGTTCTTCGACCATGCGCATTTATCATGCGATGGAAGCTACGAAGCGGATTAAGCCGATTA 1020
Db      961  CTGTTCTTCGACCATGCGCATTTATCATGCGATGGAAGCTACGAAGCGGATTAAGCCGATTA 1020
OY      1021  CTGGAGAGAGTATATCATGTTGATGGAGACGCGCGGTGTTAAAGCGATGTGGAGGAGCGG 1080
Db      1021  CTGGAGAGAGTATATCATGTTGATGGAGACGCGCGGTGTTAAAGCGATGTGGAGGAGCGG 1080
OY      1081  AAGGAGTCATATCTATGTGGAAACCGGACAGGCAAGCTGAGAAAGAGTGTCTGTGATC 1140
Db      1081  AAGGAGTCATATCTATGTGGAAACCGGACAGGCAAGCTGAGAAAGAGTGTCTGTGATC 1140
OY      1141  AACATAAGTTATGA 1155
Db      1141  AACATAAGTTATGA 1155

RESULT 11
US-09-482-287-3
; Sequence 3, Application US/09482287
; Patent No. 6441278
; GENERAL INFORMATION:
; APPLICANT: DeBonte, L. et al.
; TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID AND
; DECREASED LINOLENIC ACID CONTENT
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C., P.A.
; STREET: 60 South Sixth Street, Suite 3300
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:

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: FILING DATE: 28-Sep-2001
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/907,608
: FILING DATE: <Unknown>
: ATTORNEY/AGENT INFORMATION:
: NAME: Lundquist, Ronald C.
: REGISTRATION NUMBER: 37,875
: REFERENCE/DOCKET NUMBER: 07148/042002
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 612/335-5070
: TELEFAX: 612/288-9696
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1155 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA
: HYPOTHEetical: NO
: ANTI-SENSE: NO
: ORIGINAL SOURCE:
: ORGANISM: Brassica napus
: IMMEDIATE SOURCE:
: CLONE: IMC129
: FEATURE:
: OTHER INFORMATION: G to A transversion
: mutation at nucleotide 316 of the D form.
: SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-966-888-3

Query Match          99.3%; Score 1147; DB 4; Length 1155;
Beet Local Similarity 99.6%; Pred. No. 2.5e-309;
Matches 1150; Conservative 0; Mismatches 5; Indels 0; Gaps 0.

1 ATGGGTGAGGAGTGAAGATGCAAGTGTCTCCTCCCTCCAAAGAATGGAACGACAC 60
1 ATGGGTGAGGAGTGAAGATGCAAGTGTCTCCTCCCTCCAAAGAATGGAACGACAC 60
61 ATCAAGCGCGTAACCTGTGAGACACACCGCCCTTCACTGTGAGAACTCAAGAAACAATC 120
61 ATCAAGCGCGTAACCTGTGAGACACACCGCCCTTCACTGTGAGAACTCAAGAAACAATC 120
61 ATCAAGCGCGTAACCTGTGAGACACACCGCCCTTCACTGTGAGAACTCAAGAAACAATC 120
121 CCACCGCACTGTTTCAAAAGCTCGATCCCTGCTCTTTCTCCTACTCATCTGGAACATC 180
121 CCACCGCACTGTTTCAAAAGCTCGATCCCTGCTCTTTCTCCTACTCATCTGGAACATC 180
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181 ATCAAGAGCTCCTGTTCTACTACGTGCGACACCACTTACCTCCCTCCTCCACCT 240
181 ATCAAGAGCTCCTGTTCTACTACGTGCGACACCACTTACCTCCCTCCTCCACCT 240
241 CTCTCTCACTTGCCTGGGCTCTCTACTTGGGCTGCTGCAGAGGCTGAGCTTAAACGGGCTC 300
241 CTCTCTCACTTGCCTGGGCTCTCTACTTGGGCTGCTGCAGAGGCTGAGCTTAAACGGGCTC 300
241 CTCTCTCACTTGCCTGGGCTCTCTACTTGGGCTGCTGCAGAGGCTGAGCTTAAACGGGCTC 300
301 TGGGTCAATAGCCCAAGGTGCGGCGACCAACGCGCTTCAAGCGATACCAAGTGGCTGAGCGAC 360
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301 TGGGTCAATAGCCCAAGGTGCGGCGACCAACGCGCTTCAAGCGATACCAAGTGGCTGAGCGAC 360
361 ACCGTGCGGCTCATCTTCCACTCCCTCTCCTGCTGCTCTTACTTCTCTGGAAGTACAGT 420
361 ACCGTGCGGCTCATCTTCCACTCCCTCTCCTGCTGCTCTTACTTCTCTGGAAGTACAGT 420
421 CATGACGCGCACCATTTCCAAACCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
421 CATGACGCGCACCATTTCCAAACCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
481 AAGAAAGTCAAGCATCAAGTGTGTAACGGAAGTAACTTCAACCAACCTTTTGGAGCGACCGTG 540
481 AAGAAAGTCAAGCATCAAGTGTGTAACGGAAGTAACTTCAACCAACCTTTTGGAGCGACCGTG 540
541 ATGTTAAAGGTTCAAGTCACTCTCGGCTGGGCTTTGTACTTAAGCTTCAAGCTTCGAGG 600
541 ATGTTAAAGGTTCAAGTCACTCTCGGCTGGGCTTTGTACTTAAGCTTCAAGCTTCGAGG 600

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Db	601	AGACCTTAACGACGGCGGCTTCGCTTGGCAATTTCCACCACCAAGCTCCCATCTAACAGAC	660
QY	661	CGTAGGCGTCTCCAGATATATACATCTCCGACGCTGGACATCTCGCGCTCTGCTACGCTCTC	720
Db	661	CGTAGGCGTCTCCAGATATATACATCTCCGACGCTGGACATCTCGCGCTCTGCTACGCTCTC	720
QY	721	TACCGCTTACGCTGTGTCTCCAAAGAGTTGGCTCCATGTCTGTCTCTACAGAGTTCCCTT	780
Db	721	TACCGCTTACGCTGTGTCTCCAAAGAGTTGGCTCCATGTCTGTCTCTACAGAGTTCCCTT	780
QY	781	CTGATTTGCAACGGGTTCTTAGTTTGTATGATCACTTACTTGGACACACGCAATCCTTCCCTG	840
Db	781	CTGATTTGCAATGGGTTCTTAGTTTGTATGATCACTTACTTGGACACACGCAATCCTTCCCTG	840
QY	841	CCTCAGTAATGACTGTCTGATGTGGAGTTGGTTGAGGGAGCTTTGGCCACCGTTGACAGA	900
Db	841	CCTCAGTAATGACTGTCTGATGTGGAGTTGGTTGAGGGAGCTTTGGCCACCGTTGACAGA	900
QY	901	GACTACGGAATCTTGAACAAAGTCTTCCAAATATCACGACACGACATGTGGCCATCAC	960
Db	901	GACTACGGAATCTTGAACAAAGTCTTCCAAATATCACGACACGACATGTGGCCATCAC	960
QY	961	CTGTTCTCGACATCGCCGCAATTATCATGCGATGGAAGCTACGAAGGCGATTAAGCCGATA	1020
Db	961	CTGTTCTCGACATCGCCGCAATTATCATGCGATGGAAGCTACGAAGGCGATTAAGCCGATA	1020
QY	1021	CTGGGAGAGTATTAATCAAGTTTCGATGGGACGCCGGTGGTTAAGCGCATGTGGAGGAGCGC	1080
Db	1021	CTGGGAGAGTATTAATCAAGTTTCGATGGGACGCCGGTGGTTAAGCGCATGTGGAGGAGCGC	1080
QY	1081	AAGGAGTGATCTATGTGGAAACCGGACAGGCAAGGTGAAGAAAGGTGTCTGTGGTAC	1140
Db	1081	AAGGAGTGATCTATGTGGAAACCGGACAGGCAAGGTGAAGAAAGGTGTCTGTGGTAC	1140
QY	1141	AACATAAGTTATGA	1155
Db	1141	AACATAAGTTATGA	1155
RESULT 13			
US-08-907-608-5			
Sequence 5, Application US/08907608			
Patent No. 6063947			
GENERAL INFORMATION:			
APPLICANT: DeBonte, L. et al.			
TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID AND			
TITLE OF INVENTION: DECREASED LINOLENIC ACID CONTENT			
NUMBER OF SEQUENCES: 6			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Fish & Richardson, P.C., P.A.			
STREET: 60 South Sixth Street, Suite 3300			
CITY: Minneapolis			
STATE: MN			
COUNTRY: USA			
ZIP: 55402			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/907,608			
FILING DATE: 08-AUG-1997			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: 08/675,650			
FILING DATE: 03-JUL-1996			
ATTORNEY/AGENT INFORMATION:			
NAME: Lundquist, Ronald C.			
REGISTRATION NUMBER: 37,875			
REFERENCE/DOCKET NUMBER: 07148/042002			

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TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/335-5070
TELEFAX: 612/288-9696
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
HYPOHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Brassica napus
FEATURE:
OTHER INFORMATION: Wild type D form.
US-09-771-904a-11
Query Match 99.2%; Score 1145.4; DB 3; Length 1155;
Best Local Similarity 99.5%; Pred. No. 7e-309;
Matches 1149; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 ATGGGTGCAAGTGAAGATGCAAGTGTCTCTCTCCCTCCAAAAAGTCTGAAACCGACAC 60
DB 1 ATGGGTGCAAGTGAAGATGCAAGTGTCTCTCTCCCTCCAAAAAGTCTGAAACCGACAC 60
QY 61 ATCAAGCGGCTACCTCGGAGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCAATC 120
DB 61 ATCAAGCGGCTACCTCGGAGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCAATC 120
QY 121 CCACGCGACTGTTTCAACGCTGATCCCTGCTCTTCTCTACCTCACTGGAGCATC 180
DB 121 CCACGCGACTGTTTCAACGCTGATCCCTGCTCTTCTCTACCTCACTGGAGCATC 180
QY 181 ATCATAGCCTCCCTGCTTCTACTACGTGCGACACCACTTACTTCCCTCTCCCTCACT 240
DB 181 ATCATAGCCTCCCTGCTTCTACTACGTGCGACACCACTTACTTCCCTCTCCCTCACT 240
QY 241 CTCTCTACTGCTGCTGCTCTCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
DB 241 CTCTCTACTGCTGCTGCTCTCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
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DB 301 TGGGTGATAGCCCAAGTGGCGGACCAAGCTTTCAGGCACTACAGTGGCTGACGAC 360
QY 361 ACCGTGGCTCATCTTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 420
DB 361 ACCGTGGCTCATCTTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 420
QY 421 CATGACGCGACCACTTCAACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
DB 421 CATGACGCGACCACTTCAACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
QY 481 AAGAACTGACATCAAGTGTGTCGCAAGTACTCAACACCTTTGGGACGCAACGCTG 540
DB 481 AAGAACTGACATCAAGTGTGTCGCAAGTACTCAACACCTTTGGGACGCAACGCTG 540
QY 541 ATGTTAAGCTTCAAGTGTGTCGCAAGTACTCAACACCTTTGGGACGCAACGCTG 600
DB 541 ATGTTAAGCTTCAAGTGTGTCGCAAGTACTCAACACCTTTGGGACGCAACGCTG 600
QY 601 AAGAACTGACATCAAGTGTGTCGCAAGTACTCAACACCTTTGGGACGCAACGCTG 660
DB 601 AAGAACTGACATCAAGTGTGTCGCAAGTACTCAACACCTTTGGGACGCAACGCTG 660
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DB 661 CGTGAAGCTTCCAGATATATATATATATATATATATATATATATATATATATATAT 720
QY 721 TACCGTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
DB 721 TACCGTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
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QY 781 CTGATGTCAAGCGGCTTCTAGTTTGAATCACTTACTTGACAGACACGATCTTCCCTG 840
DB 781 CTGATGTCAAGCGGCTTCTAGTTTGAATCACTTACTTGACAGACACGATCTTCCCTG 840
QY 841 CCTCATATAGTCTGCTGAGTGGATGTTGAGGAGGCTTTGGCCACCGTTGACAGA 900
DB 841 CCTCATATAGTCTGCTGAGTGGATGTTGAGGAGGCTTTGGCCACCGTTGACAGA 900
QY 901 GACTACGGAATCTTGAACAGGCTTCTTCCATATCAAGGACACGATGCGGATCAG 960
DB 901 GACTACGGAATCTTGAACAGGCTTCTTCCATATCAAGGACACGATGCGGATCAG 960
QY 961 CTGTTCTGACCATGCTGCTGATGATGATGATGATGATGATGATGATGATGATGAT 1020
DB 961 CTGTTCTGACCATGCTGCTGATGATGATGATGATGATGATGATGATGATGATGAT 1020
QY 1021 CTGGAGAGTATATATATATATATATATATATATATATATATATATATATAT 1080
DB 1021 CTGGAGAGTATATATATATATATATATATATATATATATATATATATATAT 1080
QY 1081 AAGAGTGTATATATATATATATATATATATATATATATATATATATATAT 1140
DB 1081 AAGAGTGTATATATATATATATATATATATATATATATATATATATATAT 1140
QY 1141 AACAAATTAAGTTATGA 1155
DB 1141 AACAAATTAAGTTATGA 1155
RESULT 14
US-09-354-231B-5
Sequence 5, Application US/09354231B
Patent No. 6342658
GENERAL INFORMATION:
APPLICANT: DeBont, Lorin R.
APPLICANT: Shorttosh, Basil S.
TITLE OF INVENTION: FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF
FILE REFERENCE: 07148-063002
CURRENT APPLICATION NUMBER: US/09/354,231B
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US 08/874,109
PRIOR FILING DATE: 1997-06-12
NUMBER OF SEQ ID NOS: 69
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 1155
TYPE: DNA
ORGANISM: Brassica napus
NAME/KEY: CDS
FEATURE:
LOCATION: (1) ... (1152)
OTHER INFORMATION: Wild type Fad2
US-09-354-231B-5
Query Match 99.2%; Score 1145.4; DB 3; Length 1155;
Best Local Similarity 99.5%; Pred. No. 7e-309;
Matches 1149; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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DB 1 ATGGGTGCAAGTGAAGATGCAAGTGTCTCTCTCCCTCCAAAAAGTCTGAAACCGACAC 60
QY 61 ATCAAGCGGCTACCTCGGAGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCAATC 120
DB 61 ATCAAGCGGCTACCTCGGAGACACCGCCCTTCACTGTGAGAACTCAAGAAAGCAATC 120
QY 121 CCACGCGACTGTTTCAACGCTGATCCCTGCTCTTCTCTACCTCACTGGAGCATC 180
DB 121 CCACGCGACTGTTTCAACGCTGATCCCTGCTCTTCTCTACCTCACTGGAGCATC 180
QY 181 ATCATAGCCTCCCTGCTTCTACTACGTGCGACACCACTTACTTCCCTCTCCCTCACT 240
DB 181 ATCATAGCCTCCCTGCTTCTACTACGTGCGACACCACTTACTTCCCTCTCCCTCACT 240
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[illegible]

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RESULT 15
US-09-128-602B-5
; Sequence 5, Application US/09128602B
; Patent No. 641423
; GENERAL INFORMATION:
; APPLICANT: Kodali, Dharma

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: APPLICANT: Fan, Zhongong
: APPLICANT: Debonte, Lorin R.
: TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
: TITLE OF INVENTION: PARTY ACID CONTENT
: FILE REFERENCE: 07148-072001
: CURRENT APPLICATION NUMBER: US/09/128,602B
: CURRENT FILING DATE: 1998-08-03
: NUMBER OF SEQ. ID NOS: 68
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 5
: LENGTH: 1155
: TYPE: DNA
: ORGANISM: Brassica napus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(1152)
: OTHER INFORMATION: wild type Pad2
US-09-128-602B-5

Query Match          99.2%;   Score 1145.4; DB 4; Length 1155;
Best Local Similarity 99.5%;   Pred. No. 76-309;
Matches 1145; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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[illegible]

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Db      781 CTGATTGTCAATGGGTTCTTAGTTTGAATCACTTAATTGACGACAGCATCCTCCCTG 840
Qy      841 CCTCACTANGACTCGTCTGAGTGGGATTGGTTGAGGGGAGCTTTGGCCACCGTTGACAGA 900
Db      841 CCTCACTATGACTCGTCTGAGTGGGATTGGTTGAGGGGAGCTTTGGCCACCGTTGACAGA 900
Qy      901 GACTACGGAACTTTGAACAAGGTTCTTCCAAATATCAGGACACGCACTGGCGCATCAC 960
Db      901 GACTACGGAACTTTGAACAAGGTTCTTCCAAATATCAGGACACGCACTGGCGCATCAC 960
Qy      961 CTGTTCTGACCATGCCGATTAATCATGCGATGGAAGCTACGAAAGCGATTAAGCCGATA 1020
Db      961 CTGTTCTGACCATGCCGATTAATCATGCGATGGAAGCTACGAAAGCGATTAAGCCGATA 1020
Qy      1021 CTGGAGAGATTATATCATGTTGAGGACGCCGTTGGTTAAGCGATGTGAGGAGGCG 1080
Db      1021 CTGGAGAGATTATATCATGTTGAGGACGCCGTTGGTTAAGCGATGTGAGGAGGCG 1080
Qy      1081 AAGGAGGTATCTATGTGGAACCGGACAGGCAAGGTGAGAAAGGTGTTCTGCTAC 1140
Db      1081 AAGGAGGTATCTATGTGGAACCGGACAGGCAAGGTGAGAAAGGTGTTCTGCTAC 1140
Qy      1141 AACATTAAGTTATGA 1155
Db      1141 AACATTAAGTTATGA 1155
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Search completed: January 4, 2005, 09:58:35
Job time : 130 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 4, 2005, 09:01:39 : Search time 26 Seconds

(without alignments)
979,466 Million cell updates/sec

Title: US-09-771-904A-12

Perfect score: 2146
Sequence: 1 MGAGRMQVSPPSKSETDN.....YRPDQGEKKGVFWNNKL 384

Scoring table:

Gapop 10.0, Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

Issued Patents AA: *
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3: /cgn2_6/ptodata/1/1aa/6A COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/6B COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/PTUS COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	2146	100.0	384	4	US-09-128-602B-12
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4	2142	99.8	384	3	US-09-354-231B-10
5	2142	99.8	384	3	US-09-133-962A-4
6	2142	99.8	384	4	US-09-128-602B-10
7	2142	99.8	384	4	US-09-995-297-10
8	2129	99.2	384	4	US-08-907-608-6
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10	2129	99.2	384	4	US-09-128-602B-6
11	2129	99.2	384	4	US-09-482-287-6
12	2129	99.2	384	4	US-09-966-888-6
13	2129	99.2	384	4	US-09-995-297-6
14	2128	99.2	384	2	US-08-675-650B-2
15	2128	99.2	384	3	US-09-354-231B-14
16	2128	99.2	384	4	US-09-128-602B-14
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21	2122	98.9	384	4	US-09-128-602B-8
22	2122	98.9	384	4	US-09-995-297-8
23	2121	98.8	384	3	US-09-354-231B-16
24	2121	98.8	384	4	US-09-128-602B-16
25	2121	98.8	384	4	US-09-995-297-16
26	2120	98.8	384	3	US-09-354-231B-18
27	2120	98.8	384	4	US-09-128-602B-18

28	2120	98.8	384	4	US-09-995-297-18	Sequence 18, App1
29	2102	97.9	384	3	US-08-907-608-4	Sequence 4, App1
30	2102	97.9	384	3	US-09-354-231B-4	Sequence 4, App1
31	2102	97.9	384	4	US-09-128-602B-4	Sequence 4, App1
32	2102	97.9	384	4	US-09-482-287-4	Sequence 4, App1
33	2102	97.9	384	4	US-09-966-888-4	Sequence 4, App1
34	2102	97.9	384	4	US-09-995-297-4	Sequence 4, App1
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37	2098	97.8	384	4	US-09-128-602B-2	Sequence 2, App1
38	2098	97.8	384	4	US-09-482-287-2	Sequence 2, App1
39	2098	97.8	384	4	US-09-966-888-2	Sequence 2, App1
40	2098	97.8	384	4	US-09-995-297-2	Sequence 2, App1
41	2051	95.6	384	3	US-09-059-769-10	Sequence 10, App1
42	1960.5	91.4	383	3	US-08-530-862B-7	Sequence 7, App1
43	1960.5	91.4	384	3	US-08-597-913D-7	Sequence 7, App1
44	1924.5	89.7	383	1	US-08-314-596-41	Sequence 41, App1
45	1924.5	89.7	383	1	US-08-320-982-41	Sequence 41, App1

ALIGNMENTS

RESULT 1					
US-09-354-231B-12					
; Sequence 12, Application US/09354231B					
; Patent No. 6342658					
; GENERAL INFORMATION:					
; APPLICANT: Debonite, Lorin R.					
; APPLICANT: Shorrock, Basil S.					
; TITLE OF INVENTION: FATY ACID DESATURASES AND MUTANT SEQUENCES THEREOF					
; FILE REFERENCE: 07148-0633002					
; CURRENT APPLICATION NUMBER: US/09/354,231B					
; CURRENT FILING DATE: 1999-07-16					
; PRIOR APPLICATION NUMBER: US 08/874,109					
; PRIOR FILING DATE: 1997-06-12					
; NUMBER OF SEQ ID NOS: 69					
; SOFTWARE: FASTSEQ for Windows Version 4.0					
; SEQ ID NO 12					
; LENGTH: 384					
; TYPE: PRT					
; ORGANISM: Brassica napus					
US-09-354-231B-12					
Query Match					
Best Local Similarity 100.0%; Score 2146; DB 3; Length 384;					
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1	MGAGRMQVSPPSKSETDNIKRVPCEPTPTGELKKAIIPRCPFRSIPRSFYLIMDI	60		
DB	1	MGAGRMQVSPPSKSETDNIKRVPCEPTPTGELKKAIIPRCPFRSIPRSFYLIMDI	60		
QY	61	IIASCFYVATTFPLPLPLPLSYFAMPLVWACGCVLTGVWVAHKGHAFEDYOWLDD	120		
DB	61	IIASCFYVATTFPLPLPLPLSYFAMPLVWACGCVLTGVWVAHKGHAFEDYOWLDD	120		
QY	121	TGELIHSFLVDFYSFKTSRRHSHNTGSLERDEVFVPPKSKSDIKWYGYLNNPLGRIV	180		
DB	121	TGELIHSFLVDFYSFKTSRRHSHNTGSLERDEVFVPPKSKSDIKWYGYLNNPLGRIV	180		
QY	181	MLTVQFTLGMPLVLAIVNSGRPYDGFACFHNAPITYNDRLOIYISAGILAVCYGL	240		
DB	181	MLTVQFTLGMPLVLAIVNSGRPYDGFACFHNAPITYNDRLOIYISAGILAVCYGL	240		
QY	241	YRYAAQGVASWVCYGVPLIYNGFLVLTITVLOHTPSLPHYDSSEMDLRLGALATVDR	300		
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DB	301	DYGLNKVFHNITDTVAHHLFSTMPHYAMEATKAIKPLIGYYPODGTPTVKAMWREA	360		
QY	361	KCIIYVBPDRQGEKKGVFWNNKL	384		

Db 361 KECIYEPDRQGEKKGFWYNNKL 384

RESULT 2

US-09-128-602B-12
; Sequence 12, Application US/09128602B
; Patent No. 6414223
; GENERAL INFORMATION:
; APPLICANT: Kodali, Dharna
; APPLICANT: Pan, Zhongong
; APPLICANT: Desbonte, Lorin R.
; TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
; FILE REFERENCE: 07148-072001
; CURRENT APPLICATION NUMBER: US/09/128,602B
; CURRENT FILING DATE: 1998-08-03
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-128-602B-12

Query Match 100.0%; Score 2146; DB 4; Length 384;
Best Local Similarity 100.0%; Pred. No. 1.6e-224;
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPPSKSETDNIKRVCEPPTVGBELKKAIPHCPRKRSIPRSFSLIWDI 60
DB 1 MGAGRMQVSPPSKSETDNIKRVCEPPTVGBELKKAIPHCPRKRSIPRSFSLIWDI 60
QY 61 IASCFYVATYTFPLPHPLSYFAMPLWYACOGCVLTGVWVIAHCGHNAFSDYQWLD 120
DB 61 IASCFYVATYTFPLPHPLSYFAMPLWYACOGCVLTGVWVIAHCGHNAFSDYQWLD 120
QY 121 TVGLIFHSFLVLPYFSWKYSHRRHSHNTGSLERDEVFVPKKSIDIKWYKYLNNPLGRIV 180
DB 121 TVGLIFHSFLVLPYFSWKYSHRRHSHNTGSLERDEVFVPKKSIDIKWYKYLNNPLGRIV 180
QY 181 MLTVQFTLGMPLYLAFNVSGRPYDGGFACHFHPNAPIYNDREBLQIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLYLAFNVSGRPYDGGFACHFHPNAPIYNDREBLQIYISDAGILAVCYGL 240
QY 241 YRYAAVQVASWVCYGVPLLVNGFLVLTLYLOHTHPSLPHYDSSEWMLRGALATVDR 300
DB 241 YRYAAVQVASWVCYGVPLLVNGFLVLTLYLOHTHPSLPHYDSSEWMLRGALATVDR 300
QY 301 DYGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPILGEYQFDGTPVVKAMWREA 360
DB 301 DYGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPILGEYQFDGTPVVKAMWREA 360
QY 361 KECIYEPDRQGEKKGFWYNNKL 384
DB 361 KECIYEPDRQGEKKGFWYNNKL 384

RESULT 3

US-09-995-297-12
; Sequence 12, Application US/0995297
; Patent No. 6649782
; GENERAL INFORMATION:
; APPLICANT: Kodali, Dharna
; APPLICANT: Pan, Zhongong
; APPLICANT: Desbonte, Lorin R.
; TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
; FILE REFERENCE: 07148-072002
; CURRENT APPLICATION NUMBER: US/09/995,297
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 09/128,602
; PRIOR FILING DATE: 1998-08-03

; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-995-297-12

Query Match 100.0%; Score 2146; DB 4; Length 384;
Best Local Similarity 100.0%; Pred. No. 1.6e-224;
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPPSKSETDNIKRVCEPPTVGBELKKAIPHCPRKRSIPRSFSLIWDI 60
DB 1 MGAGRMQVSPPSKSETDNIKRVCEPPTVGBELKKAIPHCPRKRSIPRSFSLIWDI 60
QY 61 IASCFYVATYTFPLPHPLSYFAMPLWYACOGCVLTGVWVIAHCGHNAFSDYQWLD 120
DB 61 IASCFYVATYTFPLPHPLSYFAMPLWYACOGCVLTGVWVIAHCGHNAFSDYQWLD 120
QY 121 TVGLIFHSFLVLPYFSWKYSHRRHSHNTGSLERDEVFVPKKSIDIKWYKYLNNPLGRIV 180
DB 121 TVGLIFHSFLVLPYFSWKYSHRRHSHNTGSLERDEVFVPKKSIDIKWYKYLNNPLGRIV 180
QY 181 MLTVQFTLGMPLYLAFNVSGRPYDGGFACHFHPNAPIYNDREBLQIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLYLAFNVSGRPYDGGFACHFHPNAPIYNDREBLQIYISDAGILAVCYGL 240
QY 241 YRYAAVQVASWVCYGVPLLVNGFLVLTLYLOHTHPSLPHYDSSEWMLRGALATVDR 300
DB 241 YRYAAVQVASWVCYGVPLLVNGFLVLTLYLOHTHPSLPHYDSSEWMLRGALATVDR 300
QY 301 DYGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPILGEYQFDGTPVVKAMWREA 360
DB 301 DYGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPILGEYQFDGTPVVKAMWREA 360
QY 361 KECIYEPDRQGEKKGFWYNNKL 384
DB 361 KECIYEPDRQGEKKGFWYNNKL 384

RESULT 4

US-09-354-231B-10
; Sequence 10, Application US/09354231B
; Patent No. 6342658
; GENERAL INFORMATION:
; APPLICANT: Desbonte, Lorin R.
; APPLICANT: Shorttosh, Basil S.
; TITLE OF INVENTION: FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF
; FILE REFERENCE: 07148-063002
; CURRENT APPLICATION NUMBER: US/09/354,231B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US 08/874,109
; PRIOR FILING DATE: 1997-06-12
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-354-231B-10

Query Match 99.8%; Score 2142; DB 3; Length 384;
Best Local Similarity 99.7%; Pred. No. 4.2e-224;
Matches 383; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPPSKSETDNIKRVCEPPTVGBELKKAIPHCPRKRSIPRSFSLIWDI 60
DB 1 MGAGRMQVSPPSKSETDNIKRVCEPPTVGBELKKAIPHCPRKRSIPRSFSLIWDI 60
QY 61 IASCFYVATYTFPLPHPLSYFAMPLWYACOGCVLTGVWVIAHCGHNAFSDYQWLD 120
DB 61 IASCFYVATYTFPLPHPLSYFAMPLWYACOGCVLTGVWVIAHCGHNAFSDYQWLD 120

QY 121 TVGLIFHSFLVYFWSWKYSHRRHSNTGSLERDEVFVPPKKSQDIKMYGYLNNPLGRTV 180
DB 121 TVGLIFHSFLVYFWSWKYSHRRHSNTGSLERDEVFVPPKKSQDIKMYGYLNNPLGRTV 180
QY 181 MLTVQFTLGMPLYLAFVNSGRPYDGGFACHFHNAPIYNDRELOIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLYLAFVNSGRPYDGGFACHFHNAPIYNDRELOIYISDAGILAVCYGL 240
QY 241 YRYAAVOGVASWVCYGVPLLIYNGFLVITLYLOHTHPSLPHYDSSBMDLRGALATVDR 300
DB 241 YRYAAVOGVASWVCYGVPLLIYNGFLVITLYLOHTHPSLPHYDSSBMDLRGALATVDR 300
QY 301 DYGLINKVFNNITDTHVAHHLFSTMPHYHAMEATKAIKPIIGERYOFGDTPVYKAMWREA 360
DB 301 DYGLINKVFNNITDTHVAHHLFSTMPHYHAMEATKAIKPIIGERYOFGDTPVYKAMWREA 360
QY 361 KECIYVEPDRQGEKGVFWYNNKL 384
DB 361 KECIYVEPDRQGEKGVFWYNNKL 384

RESULT 5

US-09-133-962A-4
Sequence 4, Application US/09133962A
Patent No. 6372965

GENERAL INFORMATION:

APPLICANT: JONATHAN EDWARD LIGHTNER
JOHN JOSEPH OKULEY

TITLE OF INVENTION: GENES FOR MICROSOFTAL FATTY ACID
DELTA-12 DESATURASES AND RELATED
ENZYMES FROM PLANTS

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
STREET: 1007 MARKET STREET
CITY: WILMINGTON
STATE: DELAWARE
COUNTRY: UNITED STATES OF AMERICA
ZIP: 19898

COMPUTER READABLE FORM:

MEDIUM TYPE: DISKETTE, 3.50 INCH
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MICROSOFT WORD FOR WINDOWS 95
SOFTWARE: MICROSOFT WORD VERSION 7.0A
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/133,962A
FILING DATE: 14-Aug-1998
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: U.S. 07/977,339
FILING DATE: 17-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: CHRISTENBURY, LYNNIE M.
REGISTRATION NUMBER: 30,971
REFERENCE/DOCKET NUMBER: BB-1043-D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-5481
TELEFAX: (302) 773-0164
TELEX: 835420

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 384 amino acids
TYPE: amino acid
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-133-962A-4

Query Match 99.8%; Score 2142; DB 3; Length 384;
Best Local Similarity 99.7%; Pred. No. 4.2e-224;
Matches 383; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPSPKSESTONIKRVPCEPPTVGEIKKAIIPHCFKRSIPRSFSYLIWDI 60
DB 1 MGAGRMQVSPSPKSESTONIKRVPCEPPTVGEIKKAIIPHCFKRSIPRSFSYLIWDI 60
QY 61 IIASCFYVATYTFPLPHPLSYFAMPYLWACGCVLTGVWVIAHCGHNAFSDYOMLDD 120
DB 61 IIASCFYVATYTFPLPHPLSYFAMPYLWACGCVLTGVWVIAHCGHNAFSDYOMLDD 120
QY 121 TVGLIFHSFLVYFWSWKYSHRRHSNTGSLERDEVFVPPKKSQDIKMYGYLNNPLGRTV 180
DB 121 TVGLIFHSFLVYFWSWKYSHRRHSNTGSLERDEVFVPPKKSQDIKMYGYLNNPLGRTV 180
QY 181 MLTVQFTLGMPLYLAFVNSGRPYDGGFACHFHNAPIYNDRELOIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLYLAFVNSGRPYDGGFACHFHNAPIYNDRELOIYISDAGILAVCYGL 240
QY 241 YRYAAVOGVASWVCYGVPLLIYNGFLVITLYLOHTHPSLPHYDSSBMDLRGALATVDR 300
DB 241 YRYAAVOGVASWVCYGVPLLIYNGFLVITLYLOHTHPSLPHYDSSBMDLRGALATVDR 300
QY 301 DYGLINKVFNNITDTHVAHHLFSTMPHYHAMEATKAIKPIIGERYOFGDTPVYKAMWREA 360
DB 301 DYGLINKVFNNITDTHVAHHLFSTMPHYHAMEATKAIKPIIGERYOFGDTPVYKAMWREA 360
QY 361 KECIYVEPDRQGEKGVFWYNNKL 384
DB 361 KECIYVEPDRQGEKGVFWYNNKL 384

RESULT 6

US-09-128-602B-10
Sequence 10, Application US/09128602B
Patent No. 6414223

GENERAL INFORMATION:

APPLICANT: Kodali, Dharna
APPLICANT: Pan, Zhegong
APPLICANT: DeBonte, Lorin R.

TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
FATTY ACID CONTENT
FILE REFERENCE: 07148-072001
CURRENT APPLICATION NUMBER: US/09/128,602B
CURRENT FILING DATE: 1998-08-03
NUMBER OF SEQ ID NOS: 66
SOFTWARE: PastsEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 384
TYPE: PRT
ORGANISM: Brassica napus

US-09-128-602B-10

Query Match 99.8%; Score 2142; DB 4; Length 384;
Best Local Similarity 99.7%; Pred. No. 4.2e-224;
Matches 383; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPSPKSESTONIKRVPCEPPTVGEIKKAIIPHCFKRSIPRSFSYLIWDI 60
DB 1 MGAGRMQVSPSPKSESTONIKRVPCEPPTVGEIKKAIIPHCFKRSIPRSFSYLIWDI 60
QY 61 IIASCFYVATYTFPLPHPLSYFAMPYLWACGCVLTGVWVIAHCGHNAFSDYOMLDD 120
DB 61 IIASCFYVATYTFPLPHPLSYFAMPYLWACGCVLTGVWVIAHCGHNAFSDYOMLDD 120
QY 121 TVGLIFHSFLVYFWSWKYSHRRHSNTGSLERDEVFVPPKKSQDIKMYGYLNNPLGRTV 180
DB 121 TVGLIFHSFLVYFWSWKYSHRRHSNTGSLERDEVFVPPKKSQDIKMYGYLNNPLGRTV 180
QY 181 MLTVQFTLGMPLYLAFVNSGRPYDGGFACHFHNAPIYNDRELOIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLYLAFVNSGRPYDGGFACHFHNAPIYNDRELOIYISDAGILAVCYGL 240
QY 241 YRYAAVOGVASWVCYGVPLLIYNGFLVITLYLOHTHPSLPHYDSSBMDLRGALATVDR 300
DB 241 YRYAAVOGVASWVCYGVPLLIYNGFLVITLYLOHTHPSLPHYDSSBMDLRGALATVDR 300

QY 301 DVGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPIIGERYQFDGTPVVKAMWREA 360
DB 301 DVGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPIIGERYQFDGTPVVKAMWREA 360
QY 361 KECIYVEPDROGEKKGVFWYNNKL 384
DB 361 KECIYVEPDROGEKKGVFWYNNKL 384

RESULT 7

US-09-995-297-10
; Sequence 10, Application US/0995297
; Patent No. 6649782
; GENERAL INFORMATION:
; APPLICANT: Kodali, Dharna
; APPLICANT: Pan, Zhongong
; APPLICANT: DeBonte, Lotin R.
; TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
; FILE OF INVENTION: PATENT ACID CONTENT
; FILE REFERENCE: 07148-072002
; CURRENT APPLICATION NUMBER: US/09/995,297
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 09/128,602
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-995-297-10

Query Match 99.8%; Score 2142; DB 4; Length 384;
Best Local Similarity 99.7%; Pred. No. 4.2e-224;
Matches 383; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPSKSESTDNIRKVPCEPPTVGEIKKAIIPHCFRSTIPRSFSYLIWDI 60
DB 1 MGAGRMQVSPSKSESTDNIRKVPCEPPTVGEIKKAIIPHCFRSTIPRSFSYLIWDI 60
QY 61 IASCFYVATYFFLLPHPLSYFAMPYMACQGCVLGVWVIAHKGHNAFSDYQWMLD 120
DB 61 IASCFYVATYFFLLPHPLSYFAMPYMACQGCVLGVWVIAHKGHNAFSDYQWMLD 120
QY 121 TVGLIFHSFLVLPYFSWKYSHRRHNSNTGSLERDEVFVPPKKSIDIKWYGYLNNPLGRIV 180
DB 121 TVGLIFHSFLVLPYFSWKYSHRRHNSNTGSLERDEVFVPPKKSIDIKWYGYLNNPLGRIV 180
QY 181 MTLVQFTLGMPLYLAFNVSGRPYDGFACGHFNAPRIYNDRELRQIYISDAGILAVCYGL 240
DB 181 MTLVQFTLGMPLYLAFNVSGRPYDGFACGHFNAPRIYNDRELRQIYISDAGILAVCYGL 240
QY 241 YRYAAVQVAVSWCYGVPLILVNGFLVLIYLOHTHPSLPHYDSSEMDLREGALATVDR 300
DB 241 YRYAAVQVAVSWCYGVPLILVNGFLVLIYLOHTHPSLPHYDSSEMDLREGALATVDR 300
QY 301 DVGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPIIGERYQFDGTPVVKAMWREA 360
DB 301 DVGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPIIGERYQFDGTPVVKAMWREA 360
QY 361 KECIYVEPDROGEKKGVFWYNNKL 384
DB 361 KECIYVEPDROGEKKGVFWYNNKL 384

RESULT 8

US-08-907-608-6
; Sequence 6, Application US/08907608
; Patent No. 6063947
; GENERAL INFORMATION:
; APPLICANT: DeBonte, L. et al.
; TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID AND

; TITLE OF INVENTION: DECREASED LINOLENIC ACID CONTENT
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C., P.A.
; STREET: 60 South Sixth Street, Suite 3300
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/907,608
FILING DATE: 08-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/675,650
FILING DATE: 03-JUL-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lundquist, Ronald C.
REGISTRATION NUMBER: 37,875
REFERENCE/DOCKET NUMBER: 07148/042002
TELEPHONE: 612/335-5070
TELEFAX: 612/288-9696
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 384 amino acids
TYPE: amino acid
TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-907-608-6

Query Match 99.2%; Score 2129; DB 3; Length 384;
Best Local Similarity 99.2%; Pred. No. 1.1e-222;
Matches 381; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGAGRMQVSPSKSESTDNIRKVPCEPPTVGEIKKAIIPHCFRSTIPRSFSYLIWDI 60
DB 1 MGAGRMQVSPSKSESTDNIRKVPCEPPTVGEIKKAIIPHCFRSTIPRSFSYLIWDI 60
QY 61 IASCFYVATYFFLLPHPLSYFAMPYMACQGCVLGVWVIAHKGHNAFSDYQWMLD 120
DB 61 IASCFYVATYFFLLPHPLSYFAMPYMACQGCVLGVWVIAHKGHNAFSDYQWMLD 120
QY 121 TVGLIFHSFLVLPYFSWKYSHRRHNSNTGSLERDEVFVPPKKSIDIKWYGYLNNPLGRIV 180
DB 121 TVGLIFHSFLVLPYFSWKYSHRRHNSNTGSLERDEVFVPPKKSIDIKWYGYLNNPLGRIV 180
QY 181 MTLVQFTLGMPLYLAFNVSGRPYDGFACGHFNAPRIYNDRELRQIYISDAGILAVCYGL 240
DB 181 MTLVQFTLGMPLYLAFNVSGRPYDGFACGHFNAPRIYNDRELRQIYISDAGILAVCYGL 240
QY 241 YRYAAVQVAVSWCYGVPLILVNGFLVLIYLOHTHPSLPHYDSSEMDLREGALATVDR 300
DB 241 YRYAAVQVAVSWCYGVPLILVNGFLVLIYLOHTHPSLPHYDSSEMDLREGALATVDR 300
QY 301 DVGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPIIGERYQFDGTPVVKAMWREA 360
DB 301 DVGILNKVFHNITDTHVAHHLFSTMPHYAMEATKAIKPIIGERYQFDGTPVVKAMWREA 360
QY 361 KECIYVEPDROGEKKGVFWYNNKL 384
DB 361 KECIYVEPDROGEKKGVFWYNNKL 384

RESULT 9

US-09-354-231B-6
; Sequence 6, Application US/09354231B
; Patent No. 6342658
; GENERAL INFORMATION:

APPLICANT: Debonte, Lorin R.
TITLE OF INVENTION: FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF
FILE REFERENCE: 07148-063002
CURRENT APPLICATION NUMBER: US/09/354,231B
PRIOR FILING DATE: 1999-07-16
PRIORITY APPLICATION NUMBER: US 08/874,109
NUMBER OF SEQ. ID NOS: 69
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO: 6
LENGTH: 384
TYPE: PRT
ORGANISM: Brassica napus
US-09-354-231B-6

Query Match 99.2%; Score 2129; DB 3; Length 384;
Best Local Similarity 99.2%; Pred. No. 1,1e-222;
Matches 381; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGAGGRQVSPSPKSTNDIKRVPCTPPTVGEELKKAIPHCFKSIPRSFSLTMDI 60
DB 1 MGAGGRQVSPSPKSTNDIKRVPCTPPTVGEELKKAIPHCFKSIPRSFSLTMDI 60
QY 61 IASCFYVATTFPPLPPLPSYFAMPPLVYACGCVLTGVVLAHKCGHAFSDYQWLD 120
DB 61 IASCFYVATTFPPLPPLPSYFAMPPLVYACGCVLTGVVLAHKCGHAFSDYQWLD 120
QY 121 TVGLIFHSFLVLPYFSKYSRRHSNTGSLERDEVFVPPKKSDIKYGYKLNPLGRTV 180
DB 121 TVGLIFHSFLVLPYFSKYSRRHSNTGSLERDEVFVPPKKSDIKYGYKLNPLGRTV 180
QY 181 MLTVQFTLGPPLVLAFAVNSGRPYDGGFACFHHPNAPYNDRELOIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGPPLVLAFAVNSGRPYDGGFACFHHPNAPYNDRELOIYISDAGILAVCYGL 240
QY 241 YRYAAVGVASMCFCYGVPLIYNGFLVLTLYLOHTHPSLPHYDSSMDLRLGALATVDR 300
DB 241 YRYAAVGVASMCFCYGVPLIYNGFLVLTLYLOHTHPSLPHYDSSMDLRLGALATVDR 300
QY 301 DYGLINKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGEYQFDPVYVAMWREA 360
DB 301 DYGLINKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGEYQFDPVYVAMWREA 360
QY 361 KECIYVEPDRQGEKGVFWTNKL 384
DB 361 KECIYVEPDRQGEKGVFWTNKL 384

RESULT 10
US-09-128-602B-6
Sequence 6, Application US/09128602B
Patent No. 6414223
GENERAL INFORMATION:
APPLICANT: Kodali, Dharna
APPLICANT: Pan, Zhegong
APPLICANT: Debonte, Lorin R.
TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED
FILE REFERENCE: 07148-072001
CURRENT APPLICATION NUMBER: US/09/128,602B
CURRENT FILING DATE: 1998-08-03
NUMBER OF SEQ. ID NOS: 68
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO: 6
LENGTH: 384
TYPE: PRT
ORGANISM: Brassica napus
US-09-128-602B-6

Query Match 99.2%; Score 2129; DB 4; Length 384;
Best Local Similarity 99.2%; Pred. No. 1,1e-222;
Matches 381; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGAGGRQVSPSPKSTNDIKRVPCTPPTVGEELKKAIPHCFKSIPRSFSLTMDI 60
DB 1 MGAGGRQVSPSPKSTNDIKRVPCTPPTVGEELKKAIPHCFKSIPRSFSLTMDI 60
QY 61 IASCFYVATTFPPLPPLPSYFAMPPLVYACGCVLTGVVLAHKCGHAFSDYQWLD 120
DB 61 IASCFYVATTFPPLPPLPSYFAMPPLVYACGCVLTGVVLAHKCGHAFSDYQWLD 120
QY 121 TVGLIFHSFLVLPYFSKYSRRHSNTGSLERDEVFVPPKKSDIKYGYKLNPLGRTV 180
DB 121 TVGLIFHSFLVLPYFSKYSRRHSNTGSLERDEVFVPPKKSDIKYGYKLNPLGRTV 180
QY 181 MLTVQFTLGPPLVLAFAVNSGRPYDGGFACFHHPNAPYNDRELOIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGPPLVLAFAVNSGRPYDGGFACFHHPNAPYNDRELOIYISDAGILAVCYGL 240
QY 241 YRYAAVGVASMCFCYGVPLIYNGFLVLTLYLOHTHPSLPHYDSSMDLRLGALATVDR 300
DB 241 YRYAAVGVASMCFCYGVPLIYNGFLVLTLYLOHTHPSLPHYDSSMDLRLGALATVDR 300
QY 301 DYGLINKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGEYQFDPVYVAMWREA 360
DB 301 DYGLINKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGEYQFDPVYVAMWREA 360
QY 361 KECIYVEPDRQGEKGVFWTNKL 384
DB 361 KECIYVEPDRQGEKGVFWTNKL 384

RESULT 11
US-09-482-287-6
Sequence 6, Application US/09482287
Patent No. 6441278
GENERAL INFORMATION:
APPLICANT: Debonte, L. et al.
TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID AND
DECREASED LINOLENIC ACID CONTENT
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C., P.A.
STREET: 60 South Sixth Street, Suite 3300
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/482,287
FILING DATE: 13-Jan-2000
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/907,608
FILING DATE: 08-AUG-1997
APPLICATION NUMBER: 08/675,650
FILING DATE: 03-JUL-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lundquist, Ronald C.
REGISTRATION NUMBER: 37,875
REFERENCE/DOCKET NUMBER: 07148/042002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/335-5070
TELEFAX: 612/288-9696
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 384 amino acids
TYPE: amino acid
MOLECULE TYPE: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-09-482-287-6

Query Match 99.2%; Score 2129; DB 4; Length 384;

Best Local Similarity 99.2%; Pred. No. 1.1e-222; Mismatches 2; Indels 0; Gaps 0;

Matches 381; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGAGGMOVSPSKSETDNIRKVPCEPPTVGVGLKKAIPHCPRKRSIPRSFSYLIWMI 60
DB 1 MGAGGMOVSPSKSETDNIRKVPCEPPTVGVGLKKAIPHCPRKRSIPRSFSYLIWMI 60
QY 61 IASCYYVATYTFPLPHPLSYFAMPPLVYACOGCVLTGVMWIAHKGCHHAFSDYQWMLD 120
DB 61 IASCYYVATYTFPLPHPLSYFAMPPLVYACOGCVLTGVMWIAHKGCHHAFSDYQWMLD 120
QY 121 TVGLIFHSFLVYPFSWKYSHRRHSHNTGSLERDEVFVPKKSDIKMYGKYLNNPLGRIV 180
DB 121 TVGLIFHSFLVYPFSWKYSHRRHSHNTGSLERDEVFVPKKSDIKMYGKYLNNPLGRIV 180
QY 181 MLTVQFTLGMPLVLAENVSGRPYDGGFACHFHPNAPIYNDRERLQIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLVLAENVSGRPYDGGFACHFHPNAPIYNDRERLQIYISDAGILAVCYGL 240
QY 241 YRYAAVQVASMVCFFGVPLLVNGFLVLTLYLOHTHPSLPHYDSEMDMLRGALATVDR 300
DB 241 YRYAAVQVASMVCFFGVPLLVNGFLVLTLYLOHTHPSLPHYDSEMDMLRGALATVDR 300
QY 301 DYGILNKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGRYQPDGTPVVKAMREA 360
DB 301 DYGILNKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGRYQPDGTPVVKAMREA 360
QY 361 KECIYEPDROGEKKGVFWYNNKL 384
DB 361 KECIYEPDROGEKKGVFWYNNKL 384

RESULT 12

US-09-966-888-6

Sequence 6, Application US/09966888

Patent No. 6583303

GENERAL INFORMATION:

APPLICANT: Debonce, L. et al.

TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID AND

DECREASED LINOLENIC ACID CONTENT

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSER: Fish & Richardson, P.C., P.A.

STREET: 60 South Sixth Street, Suite 3300

CITY: Minneapolis

STATE: MN

COUNTRY: USA

ZIP: 55402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/966,888

FILING DATE: 28-Sep-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/907,608

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Lundquist, Ronald C.

REGISTRATION NUMBER: 37,875

REFERENCE/DOCKET NUMBER: 07148/042002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 612/335-5070

TELEFAX: 612/288-9696

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 384 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-09-966-888-6

Query Match 99.2%; Score 2129; DB 4; Length 384;

Best Local Similarity 99.2%; Pred. No. 1.1e-222; Mismatches 2; Indels 0; Gaps 0;

Matches 381; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGAGGMOVSPSKSETDNIRKVPCEPPTVGVGLKKAIPHCPRKRSIPRSFSYLIWMI 60
DB 1 MGAGGMOVSPSKSETDNIRKVPCEPPTVGVGLKKAIPHCPRKRSIPRSFSYLIWMI 60
QY 61 IASCYYVATYTFPLPHPLSYFAMPPLVYACOGCVLTGVMWIAHKGCHHAFSDYQWMLD 120
DB 61 IASCYYVATYTFPLPHPLSYFAMPPLVYACOGCVLTGVMWIAHKGCHHAFSDYQWMLD 120
QY 121 TVGLIFHSFLVYPFSWKYSHRRHSHNTGSLERDEVFVPKKSDIKMYGKYLNNPLGRIV 180
DB 121 TVGLIFHSFLVYPFSWKYSHRRHSHNTGSLERDEVFVPKKSDIKMYGKYLNNPLGRIV 180
QY 181 MLTVQFTLGMPLVLAENVSGRPYDGGFACHFHPNAPIYNDRERLQIYISDAGILAVCYGL 240
DB 181 MLTVQFTLGMPLVLAENVSGRPYDGGFACHFHPNAPIYNDRERLQIYISDAGILAVCYGL 240
QY 241 YRYAAVQVASMVCFFGVPLLVNGFLVLTLYLOHTHPSLPHYDSEMDMLRGALATVDR 300
DB 241 YRYAAVQVASMVCFFGVPLLVNGFLVLTLYLOHTHPSLPHYDSEMDMLRGALATVDR 300
QY 301 DYGILNKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGRYQPDGTPVVKAMREA 360
DB 301 DYGILNKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPLIGRYQPDGTPVVKAMREA 360
QY 361 KECIYEPDROGEKKGVFWYNNKL 384
DB 361 KECIYEPDROGEKKGVFWYNNKL 384

RESULT 13

US-09-995-297-6

Sequence 6, Application US/09995297

Patent No. 6649782

GENERAL INFORMATION:

APPLICANT: Kodali, Dharmma

APPLICANT: Pan, Zhegong

APPLICANT: Debonce, Lorin R.

TITLE OF INVENTION: PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED

FILE REFERENCE: 07148-072002

CURRENT APPLICATION NUMBER: US/09/995,297

CURRENT FILING DATE: 2001-11-27

PRIOR APPLICATION NUMBER: US 09/128,602

PRIOR FILING DATE: 1998-08-03

NUMBER OF SEQ ID NOS: 68

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6

LENGTH: 384

TYPE: PRT

ORGANISM: Brassica napus

US-09-995-297-6

Query Match 99.2%; Score 2129; DB 4; Length 384;

Best Local Similarity 99.2%; Pred. No. 1.1e-222; Mismatches 2; Indels 0; Gaps 0;

Matches 381; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGAGGMOVSPSKSETDNIRKVPCEPPTVGVGLKKAIPHCPRKRSIPRSFSYLIWMI 60
DB 1 MGAGGMOVSPSKSETDNIRKVPCEPPTVGVGLKKAIPHCPRKRSIPRSFSYLIWMI 60
QY 61 IASCYYVATYTFPLPHPLSYFAMPPLVYACOGCVLTGVMWIAHKGCHHAFSDYQWMLD 120
DB 61 IASCYYVATYTFPLPHPLSYFAMPPLVYACOGCVLTGVMWIAHKGCHHAFSDYQWMLD 120

QY	12	TVGLIFHSFLVYFSMKSHRRHSNTSLRDEVPVKKKSDIKMTGKLNPLGRTV	180
Db	121	TVGLIFHSFLVYFSMKSHRRHSNTSLRDEVPVKKKSDIKMTGKLNPLGRTV	180
QY	181	MLTVQFTLGMPLVLAFAVSGRPYDGGFACHFPNAPIYNDRERLQIYSDAGILAVCYGL	240
Db	181	MLTVQFTLGMPLVLAFAVSGRPYDGGFACHFPNAPIYNDRERLQIYSDAGILAVCYGL	240
QY	241	YRTAAVQGVASWVCIFYGVPLIYNGSLVLTITLQHTPSLPHYDSEMDMIRGALATYDR	300
Db	241	YRTAAVQGVASWVCIFYGVPLIYNGSLVLTITLQHTPSLPHYDSEMDMIRGALATYDR	300
QY	301	DYGLINKVFENITDTVAHHLPSFTMPHYAMEATAIKPIIGEYQDFGVFAAMREA	360
Db	301	DYGLINKVFENITDTVAHHLPSFTMPHYAMEATAIKPIIGEYQHTGVFAAMREA	360
QY	361	KECIYVEPDQGEKGVFWYNNKL	384
Db	361	KECIYVEPDQGEKGVFWYNNKL	384

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US-08-675-650B-2
US-08-675-650B-2
Sequence 2, Application US/08675650B
Patent No. 5850026
GENERAL INFORMATION:
APPLICANT: Debonte, L. et al.
TITLE OF INVENTION: CANOLA OIL HAVING INCREASED OLEIC ACID AND
NUMBER OF SEQUENCES: 6
DECREASED LINOLENIC ACID CONTENT
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C., P.A.
STREET: 60 South Sixth Street, Suite 3300
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/675,650B
FILING DATE: 03-JUL-1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Lundquist, Ronald C.
REGISTRATION NUMBER: 37,875
REFERENCE/DOCKET NUMBER: 07448/042001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/335-5070
TELEFAX: 612/288-9696
INFORMATION FOR SEQ. ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 384 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-675-650B-2

Query Match 99.2%; Score 2128; DB 2; Length 384;
Best Local Similarity 99.0%; Pred. No. 1,4e-222;
Matches 380; Conservative 2; Mismatches 2; Indels 0; Gaps 0

Oy 1 MGAGGAGVQSPPKSKSETNIRKVPCEPTPTVGEIKKAIIPHCCKRSIPSPSYLIMDI 60
Db 1 MGAGGAGVQSPPKSKSETNIRKVPCEPTPTVGEIKKAIIPHCCKRSIPSPSYLIMDI 60

Oy 61 IIAACFYVATYTFPLLPHPPLSYFAPFLYMACOGCVLTGVWVIAKCHHAFFSDYQWLD 120
Db 61 IIAACFYVATYTFPLLPHPPLSYFAPFLYMACOGCVLTGVWVIAKCHHAFFSDYQWLD 120

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Qy	12	TVGLIHSFSLPVYSEFMKSHRRHSHNSGLERDEVPFKKKSDIKWYGTKLNNPLGRTV	180
Db	121	TVGLIHSFSLPVYSEFMKSHRRHSHNSGLERDEVPFKKKSDIKWYGTKLNNPLGRTV	180
Qy	181	MLTVQFTLLMPLYLAFNVSGRPYDGGFACHPHNAFYINDRERLQIYISDAGILAVCYGL	240
Db	181	MLTVQFTLLMPLYLAFNVSGRPYDGGFACHPHNAFYINDRERLQIYISDAGILAVCYGL	240
Qy	241	YRTAAAVGVASVWCFFGVPDLTVNGFLVLTLYLOHTHPSLPHYDSSMDMLRGALATVDR	300
Db	241	FRIDAAQGVASVWCFFGVPDLTVNGFLVLTLYLOHTHPSLPHYDSSMDMLRGALATVDR	300
Qy	301	DYGIILKVFHNITDTHVAHHLFSTMPHYHAMEATYAIKPLIGERYQFDGTPVVKAMRREA	360
Db	301	DYGIILKVFHNITDTHVAHHLFSTMPHYHAMEATYAIKPLIGERYQFDGTPVVKAMRREA	360
Qy	361	KECIIVPEPDROGEKKGVFWYNNKL 384	
Db	361	KECIIVPEPDROGEKKGVFWYNNKL 384	

[illegible]

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Job time : 27 secs
